

Title (en)  
METHODS AND SYSTEMS FOR LASER CALIBRATION AND EYE TRACKER CAMERA ALIGNMENT

Title (de)  
VERFAHREN UND SYSTEME FÜR DIE LASERKALIBRIERUNG UND KAMERA AUSRICHTUNG ZUR AUGENVERFOLGUNG

Title (fr)  
PROCEDES ET SYSTEMES D'ETALONNAGE LASER ET D'ALIGNEMENT DE CAMERA DE SUIVI OCULAIRE

Publication  
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Application  
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Abstract (en)  
[origin: US2002198515A1] The present invention provides methods, systems, and apparatus for calibrating a laser ablation system, such as an excimer laser system for selectively ablating a cornea of a patient's eye. The invention also facilitates alignment of eye tracking cameras that measure a position of the eye during laser eye surgery. A calibration and alignment fixture for a scanning laser beam delivery system having eye tracking cameras may include a structure positionable in a treatment plane. The structure having a feature directing laser energy incident thereon to a calibration energy sensor, at least one reference-edge to determine a characteristic of the laser beam (shape, dimensions, etc.), and an artificial pupil to determine alignment of the eye tracking cameras with the laser system.

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